



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kenji MORIMOTO et al.

Serial No.: 10/088,479

Filed: March 20, 2002

For: FLIP CHIP PACKAGE, CIRCUIT BOARD THEREOF AND PACKAGING METHOD THEREOF

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. Copies of each of the references listed on Form PTO-1449 are attached.

Also enclosed is a copy of an International Search Report bearing a mailing date of April 2, 2002, and the USPTO is directed thereto for a concise statement of possible relevance of the references cited therein.

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PARKHURST & WENDEL

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. See 37 C.F.R. 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that these references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Respectfully submitted,


PARKHURST & WENDEL, L.L.P.

April 29, 2002
Date

RWP/jmz

Attorney Docket No.: YMOR:242

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 01/06230

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H05K1/11 H05K3/32 H05K3/06 H05K1/09 H01L21/48
H01L21/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05K H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 049 480 A (NEBE ET AL.) 17 September 1991 (1991-09-17) column 12, line 30 - column 13, line 4	1,2,5,6
A	EP 0 657 932 A (MATSUSHITA ELECTRIC IND CO LTD) 14 June 1995 (1995-06-14) column 9, line 2 - line 37; figure 1	1,5,6
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12, 26 December 1996 (1996-12-26) & JP 08 222840 A (SUMITOMO METAL IND LTD; SUMITOMO KINZOKU ELECTRO DEVICE:KK), 30 August 1996 (1996-08-30) abstract --- -/--	1,4-6

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
 E earlier document but published on or after the international filing date
 L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 O document referring to an oral disclosure, use, exhibition or other means
 P document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
 & document member of the same patent family

Date of the actual completion of the international search

20 March 2002

Date of mailing of the international search report

02/04/2002

Name and mailing address of the ISA

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Mes, L

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 01/06230

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09, 30 July 1999 (1999-07-30) & JP 11 121527 A (PFU LTD), 30 April 1999 (1999-04-30) abstract	1,5,6
A	----- US 5 338 391 A (SUPPELSA ET AL.) 16 August 1994 (1994-08-16) abstract; figures -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 01/06230

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5049480	A	17-09-1991	NONE	
EP 0657932	A	14-06-1995	CN 1113607 A ,B CN 1221309 A DE 69428181 D1 EP 0657932 A2 JP 7231050 A US 5640051 A US 5628919 A	20-12-1995 30-06-1999 11-10-2001 14-06-1995 29-08-1995 17-06-1997 13-05-1997
JP 08222840	A	30-08-1996	NONE	
JP 11121527	A	30-04-1999	NONE	
US 5338391	A	16-08-1994	NONE	